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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/601,713	06/20/2003	Takeshi Koizumi	5328-12	7563
27799	7590 06/03/2005		EXAM	INER
COHEN, PONTANI, LIEBERMAN & PAVANE			BAUSCH, SARAE L	
551 FIFTH A SUITE 1210	VENUE		ART UNIT	PAPER NUMBER
NEW YORK, NY 10176			1634	·

DATE MAILED: 06/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/601,713	KOIZUMI ET AL.
Office Action Summary	Examiner	Art Unit
	Sarae Bausch	1634
The MAILING DATE of this communication apportant Period for Reply		orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply specified above, the maximum statutory period with the period for reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONET	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).
Status		
 1) Responsive to communication(s) filed on 20 Jule 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowan closed in accordance with the practice under Ex 	action is non-final. ce except for formal matters, pro	
Disposition of Claims		
4) ⊠ Claim(s) 1-5 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-5 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or		
Application Papers		
9)⊠ The specification is objected to by the Examiner 10)☐ The drawing(s) filed on is/are: `a)☐ acce Applicant may not request that any objection to the d Replacement drawing sheet(s) including the correction 11)☑ The oath or declaration is objected to by the Examiner	pted or b) objected to by the E lrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of	have been received. have been received in Application ty documents have been receive (PCT Rule 17.2(a)).	on No d in this National Stage
Attachment/c)		
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date S. Patent and Trademark Office	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	

DETAILED ACTION

1. This action is in response to the papers filed 06/20/2003. Currently, claims 1-5 are pending.

Priority

2. Acknowledgment is made of applicant's prior foreign application, Japan 2002-003912. It is noted that applicants are not claiming priority under 35 U.S.C. 119(a)-(d) based upon an application filed in Japan on 01/10/2002, since the United States application was filed more than twelve months thereafter.

Sequence Rules

This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR 1.821(a)(1) and (a)(2). However, this application fails to comply with the requirements of 37 CFR 1.821 through 1.825.

Claim Rejections - 35 USC § 112- Second Paragraph

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 1-5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

With regard to claims 1-4, the claims are drawn to a process for improving efficiency of

Application/Control Number: 10/601,713

Art Unit: 1634

DNA amplification reaction but not recite any active process steps. Accordingly, it is unclear as to whether the claim is intended to be limited to methods for improving efficiency of DNA amplification or just a primer with a specific G and C content and a label. If applicants want to claim a process, applicants should amend the claim to indicate active steps in the process. If applicant wants to claim a product, applicants should amend the claim to recite a product.

With regard to claim 5, the claims are drawn to a process for improving hybridization specificity of an oligonucleotide to a DNA, but not recite any active process steps. Accordingly, it is unclear as to whether the claim is intended to be limited to methods for process for improving hybridization specificity or just a primer with a specific G and C content and a label. If applicants want to claim a process, applicants should amend the claim to indicate active steps in the process. If applicant wants to claim a product, applicants should amend the claim to recite a product.

5. Claims 1-5 provide for the use of DNA amplification and DNA hybridization, but, since the claim does not set forth any steps involved in the method/process, it is unclear what method/process applicant is intending to encompass. A claim is indefinite where it merely recites a use without any active, positive steps delimiting how this use is actually practiced.

Claims 1-5 are rejected under 35 U.S.C. 101 because the claimed recitation of a use, without setting forth any steps involved in the process, results in an improper definition of a process, i.e., results in a claim which is not a proper process claim under 35 U.S.C. 101. See for example *Ex parte Dunki*, 153 USPQ 678 (Bd.App. 1967) and *Clinical Products*, *Ltd.* v. *Brenner*, 255 F. Supp. 131, 149 USPQ 475 (D.D.C. 1966).

Application/Control Number: 10/601,713

Art Unit: 1634

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1-5 are rejected under 35 U.S.C. 102(b) as being anticipated by (J. Virology, Dec 1993, p. 7118-7124).

With regard to claim 1, Sorensen et al. teach a primer that has a total G and C content of 53% with a biotin coupled to the 5' end of the primer (see figure 1A and 1C).

With regard to claim 2, Sorensen et al. teach a primer that has a total length of 30 bases. Sorensen et al. teach a primer that has a region of at least four bases and combined G and C content of 80%, CTGGG, the last five bases of the primer sequence. Sorensen et al. teach a primer that has a quantity of a more numerous base of A and T that accounts for 83% of a combined content of A and T, GAATTC. (see primer 1, figure 1C).

With regard to claim 3, Sorensen et al. teach a simple method without additional or intervening procedures that permits amplification and sequencing of unknown cellular DNA flanking integrated proviruses (see 1st column, 3rd paragraph, page 7118).

With regard to claims 4 and 5, Sorensen et al. teach a method that comprises PCR using a biotinylated provirus-specific primer (instant claim 5) and a partly degenerate arbitrary primer (instant claim 4) with a fixed 3' end which will hybridize within a statistically defined range in the cellular DNA flanking the provirus (see 1st column, 3rd paragraph, page 7118).

Art Unit: 1634

Conclusion

7. No claims allowable over the art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sarae Bausch whose telephone number is (571) 272-2912. The examiner can normally be reached on M-F 10am-7pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Jones can be reached on (571) 272-0745. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at (866) 217-9197 (toll-free).

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or proceeding should be directed to (571) 272-0547.

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public.

For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

Sarae Bausch, PhD.
Examiner

W Gary Jones Art Unit 1634

Supervisory Patent Examiner Technology Center 1600